

## **REMARKS**

Claims 1-55 were examined. Applicant has amended claims 1, 36 and 49. No claims are cancelled, or are newly presented. No new matter has been introduced.

### **Claim Objections**

The examiner objects to claim 36 because the acronym "XML" should be spelled out at the first appearance in claims. Applicant has amended claim 36.

### **Rejections under 35 U.S.C. §112**

Claims 1-55 are rejected under §112, second paragraph, as being indefinite. Claim 1, line 10 recites the limitation "validating generated test cases"; line 5, it is unclear what "test cases" are being referred to; in line 11, it is unclear what "test cases" are being converted to "test scripts". The examiner examined claim 1 as the Examiner anticipates the claims will be amended to obviate the §112 rejections. In Claim 1, the phrase "test cases" is considered by the Examiner in all locations (i.e., not "generated" nor "converted". The examiner requests applicants amend the claim to particularly point out and consistently set forth the limitations "test cases".

Claims 2-44 are rejected based on virtue of their dependency of the rejected claim 1.

Claim 49 recites the limitation "the logic using semantic" in line 8. There is insufficient antecedent basis for this limitation in the claim. The phrase is considered to read as "logic using semantic".

Claims 50-55 stand rejected based on virtue of their dependency on the rejected claim 49.

The claims have been amended to overcome these grounds of rejection.

### **Rejections under 35 U.S.C. §102**

Claims 1-55 stand rejected under §102(b) as anticipated by "WinRunner 7.0 Tutorial", Mercury Interactive Corp. 2000 (WinRunner).

This ground of rejection is respectively traversed.

WinRunner creates tool dependency and reduces ability to share the tests. Additionally, WinRunner does not use semantic analysis to convert test cases to abstract representations, and test data is not separated from test steps in abstract representations.

WinRunner supports two modes of development of test scripts: manual script development and recording of user interactions. In WinRunner the tool records user interactions into a script form which can be played back to execute the tests automatically without manual intervention. One of the disadvantages of this approach is that the scripts generated through recording are too fragile and requires additional manual efforts to ensure reusability for parameterization. Another disadvantage is that the scripts created using one tool will not run on another tool. This reduces the ability to share the test scripts with customer or vendors if they use a different tool.

The present invention specifically addresses the disadvantages of the record and playback tool of WinRunner. With the present invention, the test scripts are converted to a platform independent format (abstract representation) and the test cases can be shared seamlessly. Test scripts can be rebuild from abstract representation for multiple platforms, and the test cases can be executed in any platform from any vendor.

WinRunner uses tool specific scripting as compared to the present invention that uses abstract representation. WinRunner has its own specific scripting language for recording and playback.

This is clearly distinguished from the present invention where test scripts are converted to an abstract representation during the import, and then the test scripts can be generated in multiple languages. we remove tool dependency and increases reuse.

With WinRunner, test scripts contain test data embedded in test steps. Parameterization is done manually to remove data dependency and enable scripts to run with multiple test data. With the present invention, test data is separated from test steps in abstract representations. This makes it easy to run same test cases with multiple data sets.

With WinRunner, application states, external interaction sequences (test steps) and data are mixed together within the scripts. It is very difficult to reuse or modify the

test cases later as a result. This is distinguished from the present invention which uses abstract representations to distinguish these entities.


**CONCLUSION**

It is submitted that the present application is in form for allowance, and such action is respectfully requested. The Commissioner is authorized to charge any additional fees which may be required, including petition fees and extension of time fees, to Deposit Account No. 08-1641 (Docket No. 07464-0004).

Respectfully submitted,

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